

Abstract of the Disclosure

An encoder-equipped sealing device, that is, the sealing device that has the encoder incorporated therein is disclosed, which comprises a combination of seal elements (3, 2), each of which includes an annular metal core (31, 21) having a substantially L-shape cross section and including a cylindrical portion (31a, 21a) and a flange portion (31b, 21b) provided on one end of the cylindrical portion (31a, 21a) and extending in the direction perpendicular to the direction in which the cylindrical portion (31a, 21a) extends. One seal element (3) of the two seal elements (3, 2) and the other seal element (2) are combined together such that the space defined by the cylindrical portion (31a) and flange portion (31b) of the one seal element (3) and the space defined by the cylindrical portion (21a) and flange portion (31b) of the other seal element (2) face opposite each other, wherein the one seal element (3) further includes an elastic seal portion (6) provided on the flange portion (31b) and disposed in the space defined by the cylindrical portion (31a) and flange portion (31b), and the other seal element (2) further includes a magnet-based encoder (1) provided on the flange portion (21b).

In accordance with the present invention, the encoder-equipped sealing device further includes a coating layer (8, 7) that is provided on the side (31c) of the one seal element (3) opposite the side on which the one seal element (3) is combined with the other seal element (2), or on the side (1a) of the other seal element (2) opposite the side on which the other seal element (2) is combined with the one seal element (3), or on both of the sides (31c) and (1a).